**Index of Claims** 



Application/Control No.

09/440,624

Examiner

Heather R. Jones

Applicant(s)/Patent under Reexamination

MAEDA, YUTAKA

Art Unit

2621

| √ | Rejected |
|---|----------|
| = | Allowed  |

| - | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

| N | Non-Elected  |
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| ı | Interference |

| Α | Appeal   |
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| 0 | Objected |

| Claim     Date       Image: Spin Section of Control of  |              |          |          |          |          |              |  | •        |  | _            |          |   |       |     |          |          |          |
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| 1   1   1   51   52   -3-   53   -4-   54   -5-   53   -54   -5-   55   -5-   56   -5-   55   -5-   55   -5-   -5-   57   -9-   58   -9-   59   -40   60   -4-   -6-   60   -4-   -6-   60   -4-   -6-   61   -4-   -6-   63   -4-   -6-   63   -4-   -6-   -6-   63   -4-   -6-   -7-   -7-   -7-   -7-   -7-   -7-   -7-   -7-   -7-   -7- <td>Cla</td> <td>aim</td> <td colspan="9">Date</td> <td></td> <td colspan="5">Claim</td>  | Cla          | aim      | Date     |          |          |              |  |          |  |              |          |   | Claim |     |          |          |          |
| 2  | Final        | Original | 12/21/07 |          |          | ,            | i  |          |  |              |          |   |       |     |          |          |          |
| 2  |              | <b>①</b> | 1        |          |          | _            |  | Т        | H  | T            |          |   |       | 51  |          |          | H        |
| 30   53   54   55   55   56   57   57   58   59   59   59   59   59   59   59  |              | 2        | 7        |          |          |              |  |          |  |              | Г        |   |       | 52  |          | $\Box$   | ┪        |
| 1-5-   55   56   57   58   59   59   59   59   59   59   59  |              | -3-      |          |          |          |              |  |          |  |              |          |   |       | 53  |          |          | Г        |
| 10   |              |          |          |          |          |              |  |          |  |              |          |   |       | 54  |          |          |          |
| 10   |              |          |          |          |          | L            | _  | L        | $ldsymbol{ld}}}}}}$ | L            |          |   |       | 55  |          |          | L        |
| Section   Sect |              | _        |          | _        |          | _            |  |          | _  |              | _        |   |       | 56  |          |          | L        |
| 10   | <u></u>      |          | _        | _        | <u> </u> | _            | <u> </u>   | <u> </u> | _  | <u> </u>     |          |   |       | 57  |          |          | L        |
| 44   | ļ            |          |          | <u> </u> | _        | <u> </u>     | <u> </u>   | <u> </u> |  | _            | <u> </u> |   |       | 58  |          | _        | L        |
| 44   | <u> </u>     |          |          | -        | -        | <u> </u>     | <u> </u>   | -        | <u> </u>   | <u> </u>     | <u> </u> |   |       | 59  |          | _        | -        |
| 44   |              | -44      |          |          | -        |              |  | ⊢        | ├  | -            | ⊢        |   |       | 61  |          | <u> </u> | ┢        |
| 44   |              |          |          | -        | -        | ⊢            | ├  | ⊢        | ├─   | ├            | $\vdash$ |   |       | 62  | $\vdash$ | ⊢        | ┝        |
| 44   | <del>-</del> |          | _        |          | 1        | $\vdash$     | -  |          | $\vdash$   | ┢            | $\vdash$ | 1 |       | 63  |          | $\vdash$ | ⊢        |
| 46-   16 √   65   66     17 √   66   67   68     19 √   69   69   69     (20 √   70   71   72   73     21 √   72   73   74   75   76   75   76   77   78   79   78   79   30   80   81   82   83   83   84   84   85   85   86   87   38   83   84   84   84   85   86   87   38   89   | <b></b>      |          |          | -        | _        | -            | <del>                                     </del> | ┢        | $\vdash$   | ┢            | ┢        | i |       | 64  |          | <u> </u> | H        |
| 16 √   66     17 √   66     18 √   68     19 √   69     (20 √   70     21 √   71     22 √   72     23 √   73     24 √   74     25 √   75     26 √   76     27 √   77     28   78     29   79     30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95   |              |          |          | _        |          |              |  |          |  | <del> </del> | ┢        | 1 |       | 65  | H        |          | ✝        |
| 17   √     18   √     19   √     20   √     21   √     21   √     22   √     23   √     24   √     25   √     26   √     27   √     28   78     29   79     30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   88     39   89     40   90     41   91     42   92     43   94     44   94     45   95     46   96  |              |          | 1        | $\vdash$ |          |              |  |          |  |              | _        | 1 |       |     |          |          | T        |
| 18 √   68     19 √   70     21 √   71     22 √   72     23 √   73     24 √   74     25 √   75     26 √   76     27 √   77     28   78     29   79     30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95  |              |          | 4        |          |          |              |  |          |  | Г            | Г        | 1 |       | 67  |          |          | T        |
| 19 √   69     (20) √   70     21 √   71     22 √   72     23 √   73     24 √   74     25 √   75     26 √   76     27 √   77     28   78     29   79     30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95  |              | 18       | 1        |          |          |              |  |          |  |              |          | 1 |       |     |          |          | T        |
| (20) √   70     21 √   71     22 √   72     23 √   73     24 √   74     25 √   75     26 √   76     27 √   77     28   78     29   79     30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95  |              | 19       |          |          |          |              |  |          |  |              |          |   |       | 69  |          |          |          |
| Text   |              |          |          |          |          |              |  |          |  |              |          |   |       | 70  |          |          |          |
| 24   √   74     25   √   75     26   √   76     27   √   77     28   78     29   79     30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   94     45   95     46   96  |              |          |          |          | <u> </u> |              |  |          | L  |              |          |   |       | 71  |          |          |          |
| 24   √   74     25   √   75     26   √   76     27   √   77     28   78     29   79     30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   94     45   95     46   96  |              |          |          | _        | L        | L            |  |          | L  |              | _        |   |       | 72  | <u> </u> | _        | L        |
| 25 √   75     26 √   76     27 √   77     28   78     29   79     30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   94     44   94     45   95     46   96  |              |          |          | _        | <u> </u> | ļ            | <u> </u>   |          | <u> </u>   | <u> </u>     | <u> </u> |   |       | 73  |          |          | L        |
| 26   \lambda   76     27   \lambda   77     28   78   79     30   80   81     31   81   82     33   83   83     34   84   84     35   85   86     37   87   87     38   88   89     40   90   90     41   91   91     42   92   93     43   94   94     45   95   96   |              |          |          |          | <u> </u> | L            | <u> </u>   | <u> </u> | _  | ļ            | <u> </u> |   |       | 74  | <u> </u> | <u> </u> | L        |
| 27 √ 77   28 78   29 79   30 80   31 81   32 82   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 91   41 91   42 92   43 94   45 95   46 96  | -            |          |          | _        | _        | ┝            | <u> </u>   | <u> </u> | _  |              | -        |   | -     | 75  |          | <u> </u> | ⊬        |
| 28   78     29   79     30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95     46   96  | $\vdash$     |          |          |          | _        | ┝            | <b></b>  |          | ⊢  | ├—           | ├        |   |       |     | -        | <u> </u> | ├        |
| 29 79   30 80   31 81   32 82   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 91   41 91   42 92   43 93   44 94   45 95   46 96  | $\vdash$     |          | · ·      |          | $\vdash$ | H            |  | _        |  | -            | -        |   |       | 78  | Н        | $\vdash$ | ┝        |
| 30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95     46   96  | $\vdash$     | 29       | _        | $\vdash$ | -        | -            |  |          | -  | ├            | $\vdash$ |   |       | 79  | Н        |          | ⊢        |
| 31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95     46   96  |              |          |          |          | H        |              | H  |          | ┢  |              | -        |   |       |     |          |          | ┢        |
| 32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95     46   96  |              |          |          |          |          |              |  | -        | $\vdash$   | $\vdash$     | $\vdash$ | 1 |       | 81  |          | _        | ┢        |
| 33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96  |              |          |          |          | Г        |              |  |          | T  |              |          | ĺ |       | 82  |          |          | Г        |
| 34   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95     46   96  |              |          |          |          |          |              |  |          |  |              |          |   |       | 83  |          |          | Г        |
| 36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96  |              |          |          |          |          |              |  |          |  |              |          |   |       | 84  |          |          |          |
| 37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96  |              |          |          |          |          |              |  |          |  |              |          |   |       |     |          | 匚        | Ĺ        |
| 38 88   39 90   40 91   41 91   42 92   43 93   44 94   45 95   46 96  |              |          |          |          | L        |              |  | _        | L.   | <u> </u>     | L        |   |       | 86  | Ш        |          | L        |
| 39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96  | <u> </u>     |          |          | <u> </u> | $\vdash$ | <u> </u>     | ļ  | <b></b>  | L-   | L.           | <u> </u> |   |       |     | Щ        | $\vdash$ | L        |
| 40   |              |          |          | -        | <u> </u> | <u> </u>     | H  | <u> </u> | <u> </u>   | <u> </u>     | ┡        |   |       |     |          | -        | $\vdash$ |
| 41 91   42 92   43 93   44 94   45 95   46 96  | <del></del>  |          |          | H        | $\vdash$ | <del> </del> | $\vdash$   | -        | ⊢  | ⊢            | -        |   |       |     | $\vdash$ | $\vdash$ | ┝        |
| 42 92   43 93   44 94   45 95   46 96  | <b>—</b>     |          |          |          | $\vdash$ |              | -  | -        | $\vdash$   | ⊢            | -        |   |       |     | $\vdash$ | $\vdash$ | $\vdash$ |
| 43 93 94 94 95 95 96 96  | _            |          | -        | -        | Ι        | $\vdash$     | Н  | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$ |   | -     |     | -        | -        | $\vdash$ |
| 44 94 95 95 46 96  |              |          |          |          |          | -            |  | _        | -  | $\vdash$     | $\vdash$ |   |       | 93  | $\vdash$ | Н        | $\vdash$ |
| 45 95 96 96  |              |          |          | -        | -        | П            | П  | $\vdash$ | Н  | $\vdash$     | $\vdash$ |   |       |     | $\vdash$ |          | Н        |
| 46 96  | <del></del>  |          |          |          |          |              |  | П        |  |              |          |   |       |     | $\vdash$ |          | Г        |
|  |              |          |          |          |          |              |  | П        | Г  |              | Г        |   |       |     |          |          | Г        |
|  |              | 47       |          |          |          |              |  |          |  |              |          |   |       | 97  |          |          |          |
| 48 98  |              |          |          |          |          |              |  |          |  |              |          |   |       | 98  |          |          |          |
| 49 99  | <u> </u>     |          |          |          |          |              |  |          |  |              |          |   |       |     |          |          |          |
| 50   100   | L            | 50       |          |          |          |              | Щ  |          | ليا  |              |          |   |       | 100 | Ш        | Ш        |          |

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|------------|----------|----------|-------------|--------------|--|----------|------------|--------------|----------|----------|
| — <u>"</u> |          |          | Γ           | Г            | T.   | <u> </u> | Ť          |              | П        | Г        |
| Final      | Original |          |             |              |  |          |            |              |          |          |
|            | 51       |          |             |              |  |          |            |              |          |          |
|            | 52       | Г        | П           |              |  |          |            | Г            |          |          |
|            | 53       |          |             |              |  |          | Γ          | Γ-           | Г        |          |
|            | 54       |          |             |              |  |          |            |              |          |          |
|            | 55       |          |             |              |  |          |            |              |          |          |
|            | 56       |          |             |              |  |          |            |              |          |          |
|            | 57       |          |             |              |  |          |            |              |          |          |
|            | 58       |          |             | L            | L  |          |            |              |          |          |
|            | 59       |          |             |              |  |          |            |              |          |          |
|            | 60       |          | L           | _            | L_   |          | L          | L            | L        |          |
|            | 61       |          | L           |              | L  |          |            | L            | _        |          |
| L          | 62       |          |             | L            | <u> </u>   |          | L.,        | L_           | 1        |          |
| L          | 63       |          | <u> </u>    | _            | <u> </u>   | _        | L          | _            | _        | _        |
| ļ          | 64       | <u> </u> | <u> </u>    | _            | ļ  | L        | _          |              |          | <u> </u> |
| ļ          | 65       |          |             | _            | _  | ldash    | _          | Ŀ            | <u> </u> | <u> </u> |
| <b>}</b>   | 66<br>67 | <u> </u> |             | <u> </u>     | <u> </u>   | <u> </u> | <u> </u>   | _            | L        | _        |
| ļ          | 67       | <u> </u> | _           | _            | _  | <u> </u> | <u> </u>   | <u> </u>     | <b>!</b> | <u> </u> |
| <u> </u>   | 68       | _        | L           | <u> </u>     |  |          |            | <u> </u>     | <u> </u> | <u> </u> |
| <u> </u>   | 69       | <u> </u> | <u> </u>    |              |  | _        | <u> </u>   | _            | _        | <u> </u> |
|            | 70       | _        | ⊢           | <b>-</b>     |  | _        | <u> </u>   | -            | <b>!</b> | ┡        |
|            | 71       | ⊢        | -           | -            |  | _        | H          | -            | -        | ├        |
| <b></b>    | 72<br>73 | -        | -           | -            | <u> </u>   | $\vdash$ |            |              |          | <u> </u> |
|            | 74       |          |             | -            | -  | $\vdash$ | ⊢          | ├            | ├        | ⊢        |
| <b>——</b>  | 75       |          | -           | -            | -  |          | ┢          | ┢            | -        |          |
| <b>—</b>   | 76       | -        | $\vdash$    | ┢            | -  |          |            | $\vdash$     | -        | -        |
|            | 77       |          | $\vdash$    | ╁─           | $\vdash$   | -        |            | ┢            | ┢        | ┢        |
|            | 78       |          |             | ┢            | ┢  | <u> </u> | $\vdash$   | $\vdash$     | $\vdash$ | $\vdash$ |
|            | 79       |          |             |              | _  | _        | ┢          | _            |          | $\vdash$ |
|            | 80       | -        | -           |              | <del>                                     </del> | Г        | ┢          | <u> </u>     |          |          |
|            | 81       |          |             |              |  |          |            |              |          |          |
|            | 82       |          |             |              | <u> </u>   | _        |            | $\vdash$     |          |          |
|            | 83       |          |             |              |  |          |            |              |          |          |
|            | 84       |          |             |              |  |          |            |              |          |          |
|            | 85       |          |             |              |  |          |            |              |          |          |
|            | 86       |          |             |              |  |          |            |              |          |          |
|            | 87       |          |             |              |  |          |            |              | L        |          |
|            | 88       |          |             | <u></u>      |  |          | <u> </u>   | L.           |          |          |
| L          | 89       |          | _           |              |  |          | L          |              | L_       | <u> </u> |
| <u> </u>   | 90       |          | _           |              |  |          | L          |              | <u> </u> |          |
|            | 91       |          |             |              | ļ.,,   | _        | <u> </u>   | <u> </u>     | <u> </u> | _        |
| <u> </u>   | 92       |          | <u> </u>    | <u> </u>     | <u> </u>   | <u> </u> | <u> </u>   | <u> </u>     | _        |          |
| <u> </u>   | 93       |          | <u> </u>    | <u> </u>     | <u> </u>   | <u> </u> | <u> — </u> | <u> </u>     | <u> </u> | $\vdash$ |
|            | 94       | <u> </u> | <u> </u>    | <u> </u>     | $\vdash$   | <u> </u> | $\vdash$   | <u> </u>     | $\vdash$ | $\vdash$ |
| -          | 95       |          | <u> </u>    | -            | <u> </u>   | <u> </u> | $\vdash$   | <del> </del> | ├-       | <u> </u> |
| -          | 96<br>97 | H        | <u> </u>    | -            | Н  | -        | -          | <u> </u>     | ├        | <u> </u> |
| -          | 98       | -        | <u> </u>    | <del> </del> | $\vdash$   |          | H          | <u> </u>     | ├        | $\vdash$ |
| $\vdash$   | 99       |          |             | $\vdash$     | -  | H        | Н          |              | $\vdash$ | $\vdash$ |
|            | 100      | -        | <del></del> | ┝            |  | -        |            | -            | $\vdash$ | $\vdash$ |
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| Cla   | Date              |              |  |              |  |  |              |              |  |                |
|-------|-------------------|--------------|--|--------------|--|--|--------------|--------------|--|----------------|
| - 01  |                   |              | _  | Г            | _  | <u> </u>   | ĬΞ           | _            | Г  | Н              |
| Final | Original          |              |  |              |  |  |              |              | :  |                |
|       | 101               | _            | _  | 1            | $\vdash$   | $\vdash$   |              |              | <u> </u>   | Н              |
|       | 102               |              |  |              |  |  |              |              | Г  | П              |
|       | 103               |              |  |              |  |  |              |              |  |                |
|       | 104<br>105        |              |  |              |  |  |              |              |  |                |
|       | 105               |              |  |              |  |  |              |              |  |                |
|       | 106               |              |  | _            | <u> </u>   |  |              |              |  |                |
|       | 107               |              | <u> </u>   | _            | _  | L  | <u> </u>     | <u>L</u>     | ļ  | Ц              |
|       | 108               | _            | ļ  | <u> </u>     |  |  |              |              | _  | Ш              |
|       | 109               | ļ            | ļ  | <u> </u>     |  | <u> </u>   |              | -            | _  | Ш              |
|       | 110               | ļ            |  | <u> </u>     | <u> </u>   | _  |              | <u> </u>     | <u> </u>   | Н              |
|       | 111               | <u> </u>     | -  | <u> </u>     | <u> </u>   | -  | <u> </u>     | <u> </u>     | <u> </u>   | Щ              |
|       | 112<br>113        |              | ├  |              |  |  | -            |              | $\vdash$   | Н              |
|       | 114               | ├            | ├  | ⊢            |  | -  |              | $\vdash$     | $\vdash$   | Н              |
|       | 115               | <del> </del> |  | <del> </del> | -  | -  |              | -            |  | Н              |
|       | 116               | -            | ├  | -            |  | -  | -            | $\vdash$     | -  | Н              |
|       | 117               | -            | H  | -            | -  | -  | <del> </del> | Н            | <del>                                     </del> | Н              |
|       | 118               | $\vdash$     | $\vdash$   | ├            | $\vdash$   | <del>                                     </del> | $\vdash$     |              | $\vdash$   | Н              |
|       | 119               |              |  | ┢            | $\vdash$   | 一  | $\vdash$     | <del> </del> | <del>                                     </del> | Н              |
|       | 120               |              | <del>                                     </del> | <u> </u>     |  | <del>                                     </del> |              | _            | _  | H              |
|       | 121               |              | ĺ  |              | -  | <del>                                     </del> |              |              | Т  | П              |
|       | 122               |              |  |              | _  |  | _            |              | Т  | П              |
|       | 121<br>122<br>123 |              |  |              |  |  |              |              |  |                |
|       | 124<br>125        |              |  |              |  |  |              |              |  |                |
| ·     | 125               |              |  |              |  |  |              |              |  |                |
|       | 126               |              | L  | <u> </u>     | L  |  |              |              |  | Ш              |
|       | 127<br>128        | <u> </u>     | L  | _            | L.   | _  |              |              |  | Ш              |
|       | 128               | <u> </u>     | _  | <u> </u>     | <u> </u>   |  |              |              |  | Щ              |
|       | 129               | <u> </u>     |  | <u> </u>     |  | <u> </u>   |              |              | _  | Ш              |
|       | 130               | <u> </u>     | <u> </u>   | <u> </u>     | _  | _  |              |              |  | Ш              |
|       | 131               |              |  | _            |  | <u> </u>   |              |              | _  | Н              |
|       | 132<br>133        | ┝            |  | -            | <u> </u>   | ├  |              |              | H  | Н              |
|       | 133               | <u> </u>     | ├-   | -            | $\vdash$   | $\vdash$   | <b> </b>     | <u> </u>     | $\vdash$   | Н              |
|       | 135               | <u> </u>     | ├  | ├            | _  |  | -            | <del> </del> | $\vdash$   | $\vdash\vdash$ |
|       | 136               |              | ┝─   | <u> </u>     |  | -  | $\vdash$     | $\vdash$     |  | Н              |
|       | 137               | $\vdash$     | $\vdash$   |              | <del>                                     </del> |  |              |              |  | Н              |
|       | 138               | $\vdash$     | $\vdash$   |              |  | Н  |              |              |  |                |
| -     | 139               |              |  |              |  | <b> </b>   |              |              |  | Н              |
|       | 140               |              |  | Г            | Г  |  |              |              |  | П              |
|       | 141               |              |  |              |  |  |              |              |  |                |
|       | 142               |              |  |              |  |  |              |              |  |                |
|       | 143               |              |  |              |  |  |              |              |  |                |
|       | 144               |              |  |              |  |  |              |              |  |                |
|       | 145               |              |  |              |  |  |              |              |  |                |
|       | 146               |              |  |              |  |  |              |              |  |                |
|       | 147               |              |  |              |  |  |              |              | $\Box$   |                |
|       | 148               | L_           | L  | $oxed{oxed}$ |  | L  | Ш            | Ш            | $oxed{oxed}$                                     | Ш              |
|       | 149               | L            | L  |              |  | L_   |              | L            | 匚  | Ш              |
|       | 150               |              | L  |              |  |  |              |              |  | Ш              |